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Section VII
High Solids Resins

CARGILL, INC.: High Solids Resins:

Epoxy Esters and Phenolic Modified:

57 1250:
% N.V. by Wt.: 80
% N.V. by Vol.: 77.8
Solvent: Ethyl 3 Ethoxy propionate
Viscosity: Z2-Z4
Max. Color: 8
Max. Acid No. (Solids Basis): 5
W.P.G.: 8.78
Baking epoxy ester for primer and one coat systems offering good gloss and excellent adhesion.

57 5737:
% N.V. by Wt.: 75
% N.V. by Vol.: 67.8
Solvent: Methyl n-propyl Ketone/n-Butyl Acetate 90/10
Viscosity: Z1-Z3
Max. Color: 13
Max. Acid No. (Solids Basis): 22
W.P.G.: 8.72
Phenolic modified alkyd designed to be used in industrial air dry systems. Primers based on 57 5737 offer rapid dry rates with corrosion resistance and outstanding top coat lifting resistance.

Oxidizing Alkyds for Baking and Air Dry:

57 5702:
% N.V. by Wt.: 95
% N.V. by Vol: 94
Solvent: Xylol
Viscosity: X-Z
Max. Color: 5
Acid No. (Solids Basis): 16
W.P.G.: 8.7
Imparts improved hardness to low bake wood coatings. Cures at 200F without an amino resin.

57 5707:
% N.V. by Wt.: 80
% N.V. by Vol: 76
Solvent: N-Butyl Acetate
Viscosity: Z4-Z6
Max. Color: 7
Acid No. (Solids Basis): 15
W.P.G.: 8.80
Type Oil: Oxidizing Fatty Acid
High solids air dry alkyd for industrial enamels. Yields coatings with excellent gloss at reasonable application viscosities.

CARGILL, INC.: High Solids Resins(Continued):

Oxidizing Alkyds for Baking and Air Dry(Continued):

57 5711:
% N.V. by Wt.: 90
% N.V. by Vol.: 89
Solvent: P.M. Acetate
Viscosity: Z3-Z5
Max. Color: 8
Acid No. (Solids Basis): 10
W.P.G.: 8.9
Type Oil: TOFA
High solids alkyd for industrial bake, low-bake and force-cure coatings.
Replacement for 57 5710.

57 5713:
% N.V. by Wt.: 80
% N.V. by Vol.: 76
Solvent: n-Butyl Acetate
Viscosity: Z4-Z6
Max. Color: 10
Acid No. (Solids Basis): 12.5
W.P.G.: 8.70
Type Oil: Soya
High solids air dry alkyd for industrial enamels. Yields coatings with excellent gloss, flexibility and fast air dry rates. Not recommended for coatings where superior exterior durability is required.

57 5720:
% N.V. by Wt.: 75
% N.V. by Vol.: 67.8
Solvent: MPK/n-Butyl Acetate 90/10
Viscosity: Y-Z2
Max. Color: 12
Acid No. (Solids Basis): 10
W.P.G.: 8.65
Type Oil: TOFA
High solids chain stopped alkyd for implement coatings. Yields coatings with excellent gloss, hardness, and rapid dry rates.

CARGILL, INC.: High Solids Resins:

Oxidizing Alkyds for Baking and Air Dry(Continued):

57 5722:
% N.V. by Wt.: 85
% N.V. by Vol.: 82
Solvent: Bu. Cell.
Viscosity: Z1-Z3
Max. Color: 7
Acid No. (Solids Basis): 10
W.P.G.: 8.80
Type Oil: Oxidizing Fatty Acid
High solids alkyd for industrial baking systems. Coatings exhibit excellent gloss, flexibility, and gloss retention. Near polyester performance.

57 5724:
% N.V. by Wt.: 80
% N.V. by Vol.: 76
Solvent: P.M. Acetate
Viscosity: Z4-Z5
Max. Color: 12
Acid No. (Solids Basis): 12.5
W.P.G.: 9.20
Type Oil: Soya
High solids medium oil chain stopped alkyd exhibits excellent gloss and flexibility. Can be formulated with 1,1,1-trichloroethane.
Replacement for 57 5725

57 5731:
% N.V. by Wt.: 75
% N.V. by Vol.: 70
Solvent: n-Butyl Acetate/Methyl Propyl Ketone 70/30
Viscosity: Z1-Z3
Max. Color: 10
Acid No. (Solids Basis): 10
W.P.G.: 8.8
Type Oil: Oxidizing Fatty Acid
Short-medium chain-stopped alkyd for railroad or implement enamels. Imparts excellent gloss, hardness and rapid dry rates.

CARGILL, INC.: High Solids Resins(Continued):

Oxidizing Alkyds for Baking and Air Dry(Continued):

57 5736:
% N.V. by Wt.: 90
% N.V. by Vol.: 88.0
Solvent: Butyl Cellosolve
Viscosity: Z1-Z2
Max. Color: 7
Acid No. (Solids Basis): 28-32
W.P.G.: 8.90
Type Oil: TOFA
Water extendable alkyd for use in industrial baking enamels. Can be formulated with conventional solvents or neutralized with amines and reduced with water to obtain low voc coatings.

57 5750:
% N.V. by Wt.: 90
% N.V. by Vol.: 88.2
Solvent: Ethyl-3-ethoxy Propionate
Viscosity: Z3-Z4
Max. Color: 8
Acid No. (Solids Basis): 10
W.P.G.: 8.90
Type Oil: TOFA
High solids short oil alkyd for industrial baking enamels. Superior performance over 57 5711. Available in xylene as 57 5708, available at 100% nvm as 57 5735.

57 5766:
% N.V. by Wt.: 90
% N.V. by Vol.: 87.7
Solvent: Mineral Spirits/Xylol 70/30
Viscosity: Z1-Z3
Max. Color: 7
Acid No. (Solids Basis): 10
W.P.G.: 8.2
Type Oil: Oxidizing
Designed for interior and exterior architectural enamels which can be formulated to meet voc levels of 250g/l.

CARGILL, INC.: High Solids Resins(Continued):

Oxidizing Alkyds for Baking and Air Dry(Continued):

57 5811:
% N.V. by Wt.: 80
% N.V. by Vol.: 74.4
Solvent: MIAK
Viscosity: Z-Z3
Max. Color: 12
Acid No. (Solids Basis): 8
W.P.G.: 8.68
Type Oil: Soya
5811 is a chain stopped medium oil alkyd designed for use with 1,1,1 Trichloroethane. 5811 exhibits excellent flexibility, gloss retention and viscosity reduction.

57 5820:
% N.V. by Wt.: 70
% N.V. by Vol.: 65.6
Solvent: MIAK
Viscosity: Z4-Z6
Max. Color: 12
Acid No. (Solids Basis): 12
W.P.G.: 8.55
Type Oil: TOFA
For coatings that require rapid air-dry. May be used as a blending resin to obtain a specific VOC or use with 1,1,1 Trichloroethane.

Non-Oxidizing for Baking or Plasticizing Resins:

57 5705:
% N.V. by Wt.: 90
% N.V. by Vol.: 88
Solvent: Ethyl 3-ethoxy-propionate
Viscosity: Z6+-1/2
Max. Color: 10
Max. Acid No. (Solids Basis): 11.1
W.P.G.: 9.30
Type Oil: TOFA
Designed for economical general industrial baking enamels. 5742 base resin in EEP.

57 5709:
% N.V. by Wt.: 90
% N.V. by Vol.: 89.1
Solvent: P.M. Acetate
Viscosity: Z2-Z4
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 8.80
Type Oil: Coconut
High solid non-oxidizing alkyd designed for non-yellowing finishes. Replacement for 57 5714.

CARGILL, INC.: High Solids Resins(Continued):

Non-Oxidizing for Baking or Plasticizing Resins(Continued):

57 5711:
% N.V. by Wt.: 90
% N.V. by Vol.: 89
Solvent: P.M. Acetate
Viscosity: Z3-Z5
Max. Color: 8
Max. Acid No. (Solids Basis): 10
W.P.G.: 8.90
Type Oil: TOFA
High solids alkyd for industrial bake, low bake and force cure coatings.

57 5716:
% N.V. by Wt.: 80
% N.V. by Vol.: 77
Solvent: Isobutanol
Viscosity: Z4-Z6
Max. Color: 6
Max. Acid No. (Solids Basis): 12
W.P.G.: 8.75
Type Oil: Soya
High solids short oil alkyd for use in industrial baking finishes and alkyd amino conversion varnishes.

57 5717:
% N.V. by Wt.: 85
% N.V. by Vol.: 83
Solvent: Bu. Cell.
Viscosity: Z3-Z5
Max. Color: 4
Max. Acid No. (Solids Basis): 11.8
W.P.G.: 8.90
Type Oil: Coconut
Can be formulated to yield coatings offering excellent weatherometer durability and superior resistance to yellowing on over bake.

57 5742:
% N.V. by Wt.: 90
% N.V. by Vol.: 87
Solvent: Xylol
Viscosity: Z6+-1/2
Max. Color: 7
Max. Acid No. (Solids Basis): 11.1
W.P.G.: 9.33
Type Oil: TOFA
Economical, general industrial type resin with strong overall performance properties.

CARGILL, INC.: High Solids Resins(Continued):

Non-Oxidizing for Baking or Plasticizing Resins(Continued):

57 5750:
% N.V. by Wt.: 90
% N.V. by Vol.: 88.2
Solvent: Ethyl 3-ethoxy-propionate
Viscosity: Z3-Z4
Max. Color: 8
Max. Acid No. (Solids Basis): 10.0
W.P.G.: 8.90
Type Oil: TOFA
Can be formulated to yield industrial enamels which exhibit good gloss retention, as well as corrosion and humidity resistance.

Vinyl Modified Alkyds:

57 5739:
% N.V. by Wt.: 74
% N.V. by Vol: 70.5
Solvent: Xylol/Methyl Propyl Ketone 52/48
Viscosity: Z4-Z6
Max. Color: 7
Acid No. (Solids Basis): 10-15
W.P.G.: 8.30
Designed for use in industrial air dry coatings offering very fast air dry rates coupled with copolymer performance characteristics.

57 5743:
% N.V. by Wt.: 75
% N.V. by Vol.: 71.2
Solvent: N-butyl acetate
Viscosity: Y-Z2
Max. Color: 10
Acid No. (Solids Basis): 10
W.P.G.: 8.45
V.T. alkyd for use in industrial air dry coatings. Coatings based on 57 5743 exhibit very fast air dry rates, good gloss and hardness.

57 5749:
% N.V. by Wt.: 70
% N.V. by Vol.: 65.4-69.4
Solvent: n-butyl acetate, Methyl propyl ketone, Toluol, Methyl isoamyl ketone 59/31/8/2
Viscosity: Z-Z2
Max. Color: 8
Acid No. (Solids Basis): 10
W.P.G.: 8.30
Acrylic alkyd designed for use in industrial air dry coatings. Coatings based on 57 5749 offer fast air dry, good gloss, exterior durability and excellent adhesion.

CARGIL, INC.: High Solids Resins(Continued):

Silicone Modified:

57 5747:
% N.V. by Wt.: 80
% N.V. by Vol.: 75
Solvent: Methyl amyl ketone, Normal butyl acetate 75/25
Viscosity: Y-Z1
Max. Color: 8
Max. Acid No. (Solids Basis): 12
W.P.G.: 8.70
Type Oil: Oxidizing
For use in industrial air dry systems which require weathering resistance and flexibility.

57 5786:
% N.V. by Wt.: 80
% N.V. by Vol.: 74.6
Solvent: Ethyl 3-Ethoxy Propionate, Methyl Amyl Ketone
Viscosity: Y-Z1
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.20
Type Oil: Non-oxidizing
Polyester for high performance baking applications offering good flexibility and exterior durability.

Oil Free Polyesters:

57 5761:
% N.V. by Wt.: 90
% N.V. by Vol.: 86.8
Solvent: Xylene, P.M. acetate 80/20
Viscosity: Z3-Z5
Max. Color: 4
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.75
Type Oil: Oil Free Polyester
Work horse polyester for high solids baking finishes. Has good flexibility, excellent gloss, color retention and overbake properties. Good mar and abrasion resistance.

CARGILL, INC.: High Solids Resins(Continued):

Oil Free Polyesters(Continued):

57 5763:
% N.V. by Wt.: 100
% N.V. by Vol.: 100
Solvent: None
Viscosity: Z5-Z6
Max. Color: 2
Max. Acid No. (Solids Basis): 5
W.P.G.: 9.70
Type Oil: Oil Free Polyester
57 5763 High Solids Polyester exhibits very fast viscosity reduction. 57 5763 is designed for industrial baking enamels.

57 5769:
% N.V. by Wt.: 95
% N.V. by Vol.: 94
Solvent: P.M. Acetate
Viscosity: Z3-Z5
Max. Color: 3
Max. Acid No. (Solids Basis): 10.5
W.P.G.: 9.8
Type Oil: Oil Free Polyester
Very fast reducing high solids polyester designed for industrial baking enamels.

57 5773:
% N.V. by Wt.: 85
% N.V. by Vol.: 80
Solvent: Xylene/n-butanol 55/45
Viscosity: Z3-Z5
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.13
Type Oil: Oil Free Polyester
Polyester resin designed for industrial baking enamels. Coatings based on 57 5773 exhibit excellent gloss, flexibility and impact.
Replacement for 57 5770 (Available in P.M. acetate as 57 5776)

CARGILL, INC.: High Solids Resins(Continued):

Oil Free Polyesters(Continued):

57 5776:
% N.V. By Wt.: 85
% N.V. by Vol.: 82
Solvent: P.M. Acetate
Viscosity: Z4-Z6
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.31
Type Oil: Oil-Free Polyester
Polyester resin designed for industrial baking enamels. Coatings based on 57 5776 offer excellent gloss, flexibility and impact.
Replacement for 57 5770. (Available in n-butanol/xylene as 57 5773).

57 5778:
% N.V. by Wt.: 90
% N.V. by Vol.: 89
Solvent: Butyl Cellosolve
Viscosity: Z3-Z5
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.10
Type Oil: Oil Free Polyester
High solids water extendible polyester for industrial baking enamels. Fast viscosity reduction.

57 5779:
% N.V. by Wt.: 90
% N.V. by Vol.: 88
Solvent: Butyl Cellosolve
Viscosity: Z4-Z6
Max. Color: 4
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.23
Type Oil: Oil Free Polyester
Water extendible. Systems may be formulated to be thinned (up to 35% of the total solvent) by water.

57 5780:
% N.V. by Wt.: 98
% N.V. by Vol.: 98
Solvent: None Present
Viscosity: Z4-Z6
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.53
Type Oil: Oil Free Polyester
High solids polyester for industrial baking enamels. Coatings based on this resin exhibit good gloss and hardness coupled with ultra low application viscosity.

CARGILL, INC.: High Solids Resins(Continued):

Oil Free Polyesters(Continued):

57 5781:
% N.V. by Wt.: 100
% N.V. by Vol.: 100
Solvent: None present
Viscosity: Z-Z2
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.70
Type Oil: Oil Free Polyester
High solids polyester for industrial baking enamels. Coatings based on this resin exhibit excellent gloss and flexibility coupled with low application viscosity.

57 5782:
% N.V. by Wt.: 95
% N.V. by Vol.: 94
Solvent: Methyl Isobutyl Ketone
Viscosity: Z3-Z5
Max. Color: 5
Max. Acid No. (Solids Basis): 6
W.P.G.: 8.65
Type Oil: Oil Free Polyester
High solids polyester for industrial baking finishes. Coatings based on this resin exhibit high megohm resistance coupled with excellent gloss and hardness. Useful in electrostatic spray applications.

57 5883:
% N.V. by Wt.: 85% reactive (80% hot plate method)
% N.V. by Vol.: 81
Solvent: P.M. Acetate, Methyl amyl ketone 63/37
Viscosity: Z-Z2
Max. Color: 3
Max. Acid No. (Solids Basis): 12
W.P.G.: 9.05
Type Oil: Oil Free Polyester/Blend
Designed for use in industrial baking systems. Coatings based on this resin offer excellent telegraphing resistance and excellent hardness.

CARGILL, INC.: High Solids Resins(Continued):

Oil Free Polyesters(Continued):

57 5784:
% N.V. by Wt.: 90
% N.V. By Vol.: 87.9
Solvent: Xylol
Viscosity: X-Z
Max. Color: 2
Max. Acid No. (Solids Basis): 6
W.P.G.: 8.80
Oil Free Polyester
Designed for use in industrial baking systems. Coatings based on this resin offer high megohm resistance coupled with excellent gloss and hardness.

57 5885:
% N.V. by Wt.: 85% reactive (80% hot plate method)
% N.V. by Vol.: 81.5
Solvent: Hexyl Acetate, Methyl Amyl Ketone 72/28
Viscosity: Z-Z2
Max. Color: 3
Max. Acid No. (Solids Basis): 8
W.P.G.: 8.95
Type Oil: Oil Free Polyester
Designed for use in industrial baking systems. Coatings based on the resin offer excellent hardness and telegraphing resistance. Not recommended for systems where exterior durability is required.

57 5789:
% N.V. by Wt.: 85
% N.V. by Vol.: 82.7
Solvent: Ethyl 3-ethoxy propionate
Viscosity: Z3-Z5
Max. Color: 3
Max. Acid No. (Solids Basis): 10
W.P.G.: 9.30
Type Oil: Oil Free Polyester
This resin can be formulated to yield enemels which exhibit excellent gloss retention under accelerated weathering.

57 5890:
% N.V. by Wt.: 85% reactive (83% hot plate method)
% N.V. by Vol.: 82
Solvent: Ethyl 3-ethoxy propionate
Viscosity: Z4-Z5 1/2
Max. Color: 3
W.P.G.: 9.40
Type Oil: Oil Free Polyester
Designed for use in industrial baking systems. Systems formulated with 57 5890 excellent telegraphing resistance and corrosion resistance.

CARGILL, INC.: High Solids Resins(Continued):

Ureas:

21 2101:
% N.V. by Wt.: 75
Solvent: n-butanol
Viscosity: Z3-Z4+
Solvent Tolerance %: 250-500
Max. Color Gardner: 2
Max. Acid No. (Solids Basis): 10.0
W.P.G. Lbs.: 8.76
High solids butylated urea offering excellent adhesion and recoatability.

Melamines:

RESIMENE 717:
CARGILL 23 2317:
% N.V. by Wt.: 84
Solvent: n-Butanol
Viscosity: Y-Z3
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G. Lbs.: 9.5-9.7
A high solid polymeric methylated melamine designed to exhibit low temp cure. Uncatalyzed cure responses as low as 250F & catalyzed cure responses as low as 200F are possible. Exhibits wide range compatibility with Polyester, Alkyds, Acrylic, Vinyls, Epoxies and Cellulosics. Alkylation alcohol is methanol. Used in high solids coatings and water-borne coatings (with Co-Solvents).

RESIMENE 735:
CARGILL 23 2335:
% N.V. by Wt.: 80
Solvent: Isopropanol
Viscosity: T-W
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G. Lbs.: 9.4-9.6
A high solid methylated polymeric melamine, solvent and water soluble offering fast cure response and uncatalyzed enamel stability. Able to achieve flexible impact resistant films.

CARGILL, INC.: High Solids Resins(Continued):

Melamines(Continued):

RESIMENE 741:
CARGILL 23 2341:
% N.V. by Wt.: 89
Solvent: Isopropanol
Viscosity: W-Z3
Solvent Tolerance %: 100-400
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G.: 9.7-9.9
A high solid methylated polymeric melamine that makes this a very versatile product. Used in both aqueous and solvent borne coatings due to excellent balance between compatibility and cure response. Excellent cure response is achieved with minimal catalyst (less than 0-2% PTSA solids on melamine solids).

RESIMENE 745:
CARGILL 23 2345:
% N.V. by Wt.: 98 min.
Viscosity: Y-Z3
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G.: 9.9-10.1
Liquid hexamethoxymethyl melamine. Its monomeric composition offers excellent catalyzed cure response between 180F--over 600F.

RESIMENE 747:
CARGILL 23 2347:
% N.V.: 98 Min.
Viscosity: Y-Z3
Solvent Tolerance %: 200-500
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G.: 10.0-10.2
Liquid hexamethoxymethyl melamine. Used in both solvent and aqueous coatings. Its monomeric composition offers excellent catalyzed cure response, stability and compatibility. Outstanding film flexibility and toughness are generally achieved.

CARGILL, INC.: High Solids Resins(Continued):

Melamines(Continued):

RESIMENE 750:
CARGILL 23 2350:
% N.V. by Wt.: 80
Solvent: n-butanol
Viscosity: X-Z4
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G.: 8.8-9.0
A high solids butylated melamine resin, with very high compatability. Exhibits excellent flow properties and cratering resistance. Solvent soluble (active solvent) and water extendable with co-solvent.

RESIMENE 755:
CARGILL 23 2355:
% N.V. by Wt.: 98 Min.
Viscosity: S-W
Solvent Tolerance %: 100 min.
Max. Color APHA: 40
Water Solubility: w/Co-Solvent
W.P.G.: 9.0-9.2
Hexaalkoxymethyl melamine of mixed methoxy/butoxy functionality. Exhibits better flow properties significantly better resistance to crater than hexamethoxy resins. Solvent soluble (active solvent) and H2O extendable with Co-Solvent.

23 2387:
% N.V. by Wt.: 80
Solvent: 50% Isopropanol/50% Isobutanol
Viscosity: W-Z
Max. Color APHA: 40
Max. Acid No. (Solids Basis): 1.2
Water Solubility: 100 Min.
W.P.G.: 9.5
A high solids polymeric methylated melamine for use with baking alkyds, silicone polyesters, oil free polyesters, thermoset acrylics and water reducible resins. Will cure faster and at lower temperatures than the monomeric methylated melamines.

CARGILL, INC.: High Solids Resins(Continued):

Melamines(Continued):

RESIMENE 797:
CARGILL 2397:
% N.V. by Wt.: 92
Solvent: Ethanol
Viscosity: W-Z
Max. Color APHA: 40
Water Solubility: requires high levels of co-solvent to be water-dilutable.
W.P.G.: 9.5
A modified methylated melamine, recommended for use in conventional solvent and high solids coatings. With high levels of acid catalyst, very low cure schedules are possible, as low as 150F.

23 2390:
% N.V. by Wt.: 80
Solvent: n-Butanol
Viscosity: Z3-Z5
Solvent Tolerance %: 350 Min.
Max. Color APHA: 40
Max. Acid No. (Solids Basis): 1.2
W.P.G.: 8.7
A high solids butylated melamine with wide compatibility with resins, including baking alkyds, silicone polyesters, oil-free polyesters, nitrocellulose, cellulose acetate butyrates and thermosetting acrylics.

Isocyanate Modified:

57 4550:
% N.V. by Wt.: 75
% N.V. by Vol.: 66.0
Solvent: MIAK
Viscosity: Z6+-1/2
Max. Color: 5
Eq. Wt. (Solids Basis): 383-403
W.P.G.: 9.15
High solids blocked aromatic urethane designed for use as a crosslinker in industrial baking systems. Industrial enamels based on 57 4550 exhibit excellent gloss and hardness as well as outstanding humidity, salt spray and stain resistance.
Not recommended for exterior applications.

CARGILL, INC.: High Solids Resins(Continued):

Isocyanate Modified(Continued):

57 5797:
% N.V. by Wt.: 70
% N.V. by Vol.: 62.5
Solvent: MIAK
Viscosity: X-Z
Max. Color: 3
Eq. Wt. (Solids Basis): 335-375
W.P.G.: 8.44
High solids blocked aliphatic urethane designed for use as a crosslinker in industrial baking systems.
Industrial enamels based on 57 5797 exhibit excellent gloss and hardness as well as outstanding humidity, salt spray and stain resistance.

57 4368:
% N.V. by Wt.: 70
% N.V. by Vol.: 67
Solvent: N-butyl Acetate
Viscosity: Z1-Z3
Max. Color: 5
Eq. Wt. (Solids Basis): 4 max (Acid No. solids)
W.P.G.: 8.20
A high solids DCO oil modified urethane designed for industrial air dry enamels offering excellent flexibility and fast dry rates.

57 5794:
% N.V. by Wt.: 80
% N.V. By Vol.: 75
Solvent: M.S.
Viscosity: Z1-Z2
Max. Color: 6
Eq. Wt. (Solids Basis): 2 max (Acid No. Solids)
W.P.G.: 8.04
A high solids soya oil modified urethane designed for interior trade sales applications that require a voc of less than 350 g/l.

FREEMAN POLYMERS DIVISION: High Solids Resins: Air Dry Alkyds:

11-2814:
Chain Stopped Alkyd
% NVM by Wt.: 75.0
Solvent: Xylene/MIBK/BA/MPK: 10/60/20/10
Viscosity: Z1-Z3
Reduced Viscosity: Vis: L-P
NV: 60
Reducer: Xylene
Gardner Color Max.: 12
A.N. Max. (Solids Basis): 16
Lbs./Gal: 8.8
Oil Type: TOFA
Equiv. Weight (Solids): 758
Good air dry characteristics, excellent baking vehicle, good color retention on overbake, good cure response at low temperatures.

11-3121:
Chain Stopped Alkyd
% NVM by Wt.: 80.0
Solvent: MAK
Viscosity: Z5
Reduced Viscosity: Vis: F-I
NV: 60
Reducer: MAK
Gardner Color Max.: 10
A.N. Max. (Solids Basis): 10
Lbs./Gal.: 8.9
Oil Type: Oxidizing fatty acids
Equiv Weight (Solids): 1402
Air dry or force cure, low VOC coatings, good gloss and gloss retention, excellent exterior durability

11-3129:
Chain Stopped Alkyd
% NVM by Wt.: 70.0
Solvent: Xylene
Viscosity: W-Z
Reduced Viscosity: Vis: C-F
NV: 60
Reducer: Butyl Acetate
Gardner Color Max.: 6
A.N. Max. (Solids Basis): 11.5
Lbs./Gal.: 8.8
Oil Type: Soya
Economical fast air dry or bake

FREEMAN POLYMERS DIVISION: High Solids Resins: Air Dry Alkyds (Continued):

11-3132:
Chain Stopped Alkyd
% NVM by Wt.: 75.0
Solvent: Xylene
Viscosity: Z2-Z5
Reduced Viscosity: Vis: I-L
NV: 60
Reducer: Xylene
Gardner Color Max.: 8
A.N. Max. (Solids Basis): 13.3
Lbs./Gal.: 8.8
Oil Type: Soya
Equiv Weight (Solids): 877
Fast air dry, good early water spot resistance, may be force cured

11-3135:
Chain Stopped Alkyd
% NVM by Wt.: 80.0
Solvent: PGMEA*/Butanol/Xylene: 75/15/10
Viscosity: Z5-Z7
Reduced Viscosity: Vis: A-C
NV: 50
Reducer: PGMEA*
Gardner Color Max.: 10
A.N. Max. (Solids Basis): 10
Lbs./Gal.: 9.1
Oil Type: Soya
Equiv. Weight (Solids): 1516
Air dry or force cure, low VOC coatings, good gloss and gloss retention, resistant to humid and corrosive conditions

11-3351:
Chain Stopped Alkyd
% NVM by Wt.: 80.0
Solvent: Xylene/Butyl Acetate: 15/85
Viscosity: Z4-Z6
Reduced Viscosity: Vis: D-F
NV: 60
Reducer: Butyl Acetate
Gardner Color Max.: 8
A.N. Max. (Solids Basis): 12.5
Lbs./Gal.: 8.7
Oil Type: Soya
Low reduced viscosity, good flexibility

* Propylene Glycol Monomethyl Ether Acetate

FREEMAN POLYMERS DIVISION: High Solids Resins: Baking Alkyds:

11-0185:
Short Oil Alkyd
% NVM by Wt.: 85.0
Solvent: Toluene
Viscosity: X-Z
Reduced Viscosity: Vis: E
NV: 70
Reducer: Toluene
Gardner Color Max.: 11
A.N. Max. (Solids Basis): 8.0
Lbs./Gal.: 8.74
Oil Type: TOFA
General purpose for use with MF or UF to produce 2.0 to 3.0 VOC baking enamels

11-1661:
Short Oil Alkyd
% NVM by Wt.: 90.0
Solvent: Xylene
Viscosity: Z4-Z6
Reduced Viscosity: Vis: F-G
NV: 70
Reducer: Xylene
Gardner Color Max.: 10
A.N. Max. (Solids Basis): 10
Lbs./Gal.: 9.0
Oil Type: Soya
Equiv. Weight (Solids): 380
Low cost, general purpose, 2.5 to 3.0 VOC

11-2080:
Short Oil Alkyd
% NVM by Wt.: 85.0
Solvent: PGMEA*
Viscosity: Z-Z2
Gardner Color Max.: 5
A.N. Max. (Solids Basis): 10.0
Lbs./Gal.: 8.97
Oil Type: Soya
Equiv. Weight (Solids): 290
General purpose baking or isocyanate cure

* Propylene Glycol Monomethyl Ether Acetate

FREEMAN POLYMERS DIVISION: High Solids Resins: Baking Alkyds (Continued):

11-3618:
Short Oil Alkyd
% NVM by Wt.: 88.0
Solvent: Xylene
Viscosity: Y-Z2
Reduced Viscosity: Vis: D-G
NV: 70
Reducer: Xylene
Gardner Color Max.: 9
A.N. Max. (Solids Basis): 6.8
Lbs./Gal.: 9.1
Oil Type: TOFA
Equiv. Weight (Solids): 267
Rapid viscosity reduction, minimal low MW volatiles, excellent film hardness, good low temperature cure response

11-3630:
Short Oil Alkyd
% NVM by Wt.: 80.0
Solvent: Xylene
Viscosity: Z3-Z5
Reduced Viscosity: Vis: J-L
NV: 60
Reducer: Xylene
Gardner Color Max.: 9
A.N. Max. (Solids Basis): 7.5
Lbs./Gal.: 9.0
Oil Type: TOFA
Equiv. Weight (Solids): 223
Low VOC, rapid cure response, good compatibility with most melamine and urea resins, good performance over marginally treated substrates

11-4082:
Short Oil Alkyd
% NVM by Wt.: 90.0
Solvent: Xylene
Viscosity: Z4-Z6
Reduced Viscosity: Vis: G-J
NV: 70
Reducer: Xylene
Gardner Color Max.: 10
A.N. Max. (Solids Basis): 8.9
Lbs./Gal.: 9.2
Oil Type: TOFA
Rapid viscosity reduction, minimal volatile, good film hardness, good low temperature response

FREEMAN POLYMERS DIVISION: High Solids Resins: Polyesters:

11-1369:
Polyester
% NVM by Wt.: 77.0
Solvent: PGMEA*
Viscosity: X-Z
Reduced Viscosity: Vis: B-C
NV: 60
Reducer: Xylene
Gardner Color Max.: 4
A.N. Max. (Solids Basis): 10.0
Lbs./Gal.: 9.20
Equiv. Weight (Solids): 320
For appliance or general industrial coatings, excellent stain resistance, flexibility and impact resistance, excellent exterior durability, melamine or isocyanate reactive

11-1645:
Polyester
% NVM by Wt.: 80.0
Solvent: Aromatic 100
Viscosity: Z1-Z2
Gardner Color Max.: 4
A.N. Max. (Solids Basis): 8.0
Lbs./Gal.: 8.70
Equiv. Weight (Solids): 475
For appliance or general industrial coatings, excellent flexibility and hardness, excellent stain resistance and exterior durability, 1.8 to 2.0 VOC possible, melamine reactive

11-1646:
Polyester
% NVM by Wt.: 80.0
Solvent: Xylene
Viscosity: Z1-Z2
Gardner Color Max.: 3
A.N. Max. (Solids Basis): 8.0
Lbs./Gal.: 8.70
Equiv. Weight (Solids): 475
Xylol version of 11-1645

* Propylene Glycol Monomethyl Ether Acetate

FREEMAN POLYMERS DIVISION: High Solids Resins: Polyesters (Continued):

11-2339:
Polyester
% NVM by Wt.: 97.0
Viscosity: >Z6
Reduced Viscosity: Vis: B-D
NV: 70
Reducer: Xylene
Gardner Color Max.: 6
A.N. Max. (Solids Basis): 9.0
Lbs./Gal.: 9.3
Equiv. Weight (Solids): 234
No solvent or reactive diluent, compatible with most thermoset resins, very low VOC's, superior gloss and color retention

11-3361:
Polyester
% NVM by Wt.: 80.0
Solvent: Xylene
Viscosity: Z2-Z5
Reduced Viscosity: Vis: S-V
NV: 70
Reducer: Xylene
Gardner Color Max.: 6
A.N. Max. (Solids Basis): 5
Lbs./Gal.: 9.1
Equiv. Weight (Solids): 550
Low temperature cure, good over bake resistance, good gloss and gloss retention, hard, flexible films with good adhesion

11-3369:
Polyester
% NVM by Wt.: 70.0
Solvent: SC 150/Butoxyethanol/Xylene: 75/19/6
Viscosity: Z3-Z5
Reduced Viscosity: Vis: J-M
NV: 50
Reducer: Butoxy-ethanol
Gardner Color Max.: 8
A.N. Max. (Solids Basis): 8.6
Lbs./Gal.: 9.1
Equiv. Weight (Solids): 1700
Good durability and corrosion resistance, low crosslinker demand, excellent flexibility

FREEMAN POLYMERS DIVISION: High Solids Resins: Polyesters (Continued):

11-3640:
Polyester
% NVM by Wt.: 88.0
Solvent: Xylene
Viscosity: Z4-Z6
Reduced Viscosity: Vis: D-F
NV: 70
Reducer: Xylene
Gardner Color Max.: 7
A.N. Max. (Solids Basis): 6.80
Lbs./Gal.: 9.8
Equiv. Weight (Solids): 351
Economical, good hardness and flexibility

11-4517:
Polyester
% NVM by Wt.: 75.0
Solvent: Butoxyethanol
Viscosity: Z3-Z4
Reduced Viscosity: Vis: L-O
NV: 60
Reducer: Butoxy-ethanol
Gardner Color Max.: 5
A.N. Max. (Solids Basis): 76
Lbs./Gal.: 9.2
Equiv. Weight (Solids): 404
Excellent pigment wetting, can be cured with epoxies, melamine or urea resins, good overbake resistance, hard, moisture resistant coatings

11-2161:
Polyester
% NVM by Wt.: 95
Viscosity: Z6+
Reduced Viscosity: Vis: D-H
NV: 70
Reducer: Xylene
Gardner Color Max.: 6
A.N. Max. (Solids Basis): 9
Lbs./Gal.: 9.25
Equiv. Weight (Solids): 312
No solvent, low viscosity reduction, high resistivity, excellent corrosion resistance and exterior durability, good compatibility

FREEMAN POLYMERS DIVISION: High Solids Resins: Polyesters (Continued):

11-6018:
Polyester
% NVM by Wt.: 85
Solvent: Xylene
Viscosity: W-Z
Reduced Viscosity: Vis: E-H
NV: 75
Reducer: Xylene
Gardner Color Max.: 7
A.N. Max. (Solids Basis): 4
Lbs./Gal.: 8.8
Equiv. Weight (Solids): 345
Excellent imported stain resistance for metal office furniture

FREEMAN POLYMERS DIVISION: High Solids Resins: Modified Alkyds:

12-2204:
Modified Alkyd
% NVM by Wt.: 75.0
Solvent: Xylene
Viscosity: Z4-Z6
Reduced Viscosity: Vis: N-Q
NV: 60
Reducer: Xylene
Gardner Color Max.: 15
A.N. Max (Solids Basis): 24
Lbs./Gal.: 8.8
Oil Type: Soya
Mod.: Phenolic
Equiv. Weight (Solids): 779
Air dry or force cure, rapid viscosity reduction highly resistant to humid and corrosive environments, excellent compatibility (with chain stopped and monomer modified alkyds)

12-3030:
Modified Alkyd
% NVM by Wt.: 75.0
Solvent: Xylene/MPK: 80/20
Viscosity: Z2-Z4
Reduced Viscosity: Vis: H-J
NV: 60
Reducer: Xylene
Gardner Color Max.: 16
A.N. Max (Solids Basis): 9.3
Lbs./Gal.: 8.8
Oil Type: Soya/DCO
Mod: Rosin
Equiv. Weight (Solids): 729
Fast set and dry, widely compatible with pure alkyds, excellent recoatability with two component urethane systems

Monomer Modified Alkyds:

13-0296:
Monomer Modified Alkyd
% NVM by Wt.: 72.0
Solvent: Aromatic 100
Viscosity: Z3-Z4
Reduced Viscosity: Vis: I
NV: 60
Reducer: Xylene
Gardner Color Max.: 5
A.N. Max. (Solids Basis): 3.0
Lbs./Gal.: 7.99
Oil Type: Soya
Mod.: VT
Moderately fast air dry with good flow, good pigment wetting, produces excellent gloss

FREEMAN POLYMERS DIVISION: High Solids Resins(Continued):

Monomer Modified Alkyds(Continued):

13-1428:
Monomer Modified Alkyd
% NVM by Wt.: 75.0
Solvent: Xylene/MPK: 50/50
Viscosity: Z1-Z3
Reduced Viscosity: Vis: A-C
NV: 50
Reducer: Xylene
Gardner Color Max.: 10
A.N. Max. (Solids Basis): 8
Lbs./Gal.: 8.4
Oil Type: Soya/DCO
Mod.: Styrene
Equiv. Weight (Solids): 1402
Extremely fast dry, may be force cured, good corrosion resistance

13-1604:
Monomer Modified Alkyd
% NVM by Wt.: 70.0
Solvent: PM Acetate/MIBK/Xylene: 33/47/20
Viscosity: Z1-Z3
Reduced Viscosity: Vis: F-H
NV: 50
Reducer: PM Acetate
Gardner Color Max.: 9
A.N. Max. (Solids Basis): 11.4
Lbs./Gal.: 8.5
Oil Type: Soya/DCO
Mod.: Acrylic
Equiv. Weight (Solids): 1275
Fast dry, excellent adhesion to treated or untreated metals and plastic substrates, compatible with thermoplastic vinyl and/or acrylic resins, exceptional flow and leveling

14-0149:
Monomer Modified Alkyd
% NVM by Wt.: 75.0
Solvent: MIBK
Viscosity: Z2-Z5
Reduced Viscosity: Vis: J-N
NV: 60
Reducer: MIBK
Gardner Color Max.: 5
A.N. Max. (Solids Basis): 9.3
Lbs./Gal.: 8.15
Oil Type: Oxidizing
Mod.: VT
Equiv. Weight (Solids): 2078
Rapid lacquer like tack free time, good aliphatic solvent compatibility, fast viscosity reduction in oxygenated solvents.

FREEMAN POLYMERS DIVISION: High Solids Resins: Thermoset Acrylics:

17-2284:
Acrylic
% NVM by Wt.: 70.0
Solvent: EEP
Viscosity: Z-Z2
Gardner Color Max.: 1
A.N. Max. (Solids Basis): 80.0
Lbs./Gal.: 8.96
Carboxyl functional for metal deco

17-3866:
Acrylic
% NVM by Wt.: 80.0
Solvent: Xylene
Viscosity: Z3-Z5
Gardner Color Max.: 4
A.N. Max. (Solids Basis): 3.0
Lbs./Gal.: 8.71
Equiv. Weight (Solids): 580
Hydroxy functional, durable, low voc, good flexibility, can be used with isocyanates

17-3867:
Acrylic
% NVM by Wt.: 80.0
Solvent: MAK/Xylene: 80/20
Viscosity: Z2-Z4
Gardner Color Max.: 3
A.N. Max. (Solids Basis): 6.0
Lbs./Gal.: 8.71
Equiv. Weight (Solids): 580
Hydroxy functional, low VOC, excellent durability, high gloss and flexibility, may be used with isocyanates

17-4001:
Acrylic
% NVM by Wt.: 75.0
Solvent: MAK
Viscosity: Z3-Z5
Reduced Viscosity: Vis: C-E
NV: 50
Reducer: MAK
Gardner Color Max.: 3
A.N. Max. (Solids Basis): 18
Lbs./Gal.: 8.6
Equiv. Weight (Solids): 630
Hydroxy functional, good gloss and color retention, good compatibility with melamine or urea resins

FREEMAN POLYMERS DIVISION: High Solids Resins: Epoxy Esters:

16-1200:
Epoxy Adduct
% NVM by Wt.: 75.0
Solvent: Xylene
Viscosity: X-Z1
Reduced Viscosity: Vis: E-G
NV: 60
Reducer: Xylene
Gardner Color Max.: 9
A.N. Max. (Solids Basis): 1.30
Lbs./Gal.: 8.5
Equiv. Weight (Solids): 630
Excellent chemical and corrosion resistance, very good pigment wetting, highly soluble in aromatic solvents, broad compatibility with other resins, improves recoatability and significantly toughens films when used as a modifying resin in baking systems.

16-0136:
Epoxy Ester
% NVM by Wt.: 75.0
Solvent: Butyl Acetate
Viscosity: Z1-Z3
Reduced Viscosity: Vis: J-L
NV: 60
Reducer: Butyl Acetate
Gardner Color Max.: 5
A.N. Max. (Solids Basis): 10
Lbs./Gal.: 8.7
Oil Type: Conjugated
Air dry or bake primers or enamels with good salt spray and chemical resistance, fast set time, 3.5 VOC possible

MCWHORTER: High Solids:

Baking Alkyds:

DURAMAC 2026:
Wt/Gal: 9.00
% NVM: 85
Solvents: Xylol
Gardner Color: 6 Max
Acid # (Solids): 10-15
Viscosity: Z3-Z4
Reduced Viscosity: H-J @ 70% Xylol
F Seta Flash Point: 80
% Oil: 23
Oil Type: TOFA
A high solids short oil baking alkyd which yields outstanding finishes at spray viscosity at VOC of 2.8. Properly formulated, it will develop H-2H hardness and has superior resistance to telegraphing.

DURAMAC 2049:
Wt/Gal: 9.25
% NVM: 85
Solvents: Xylol
Gardner Color: 6 Max
Acid # (Solids): 10 Max
Viscosity: Z2-Z4
Reduced Viscosity: I-L @ 70% Xylol
F Seta Flash Point: 80
% Oil: 26
Oil Type: TOFA
An interior high solids short oil baking alkyd with excellent gloss, flexibility and hardness at economical terms. An outstanding value.

DURAMAC 2050:
Wt/Gal: 9.25
% NVM: 85
Solvents: Xylol
Gardner Color: 6 Max
Acid # (Solids): 10 Max
Viscosity: Y-Z2
Reduced Viscosity: F-I @ 70% Xylol
F Seta Flash Point: 80
% Oil: 27
Oil Type: TOFA
A very low VOC high solids short oil baking alkyd with better than average cure response and good economics.

MCWHORTER: High Solids(Continued):

Baking Alkyds(Continued):

DURAMAC 2056:
Wt/Gal: 8.90
% NVM: 80
Solvents: MPK/Xylol
Gardner Color: 3 Max
Acid # (Solids): 12 Max
Viscosity: Z3-Z5
F Seta Flash Point: 46
Oil Type: Coconut
A high solids coconut oil alkyd for excellent plasticizing of nitrocellulose and other lacquer-types below 500 grams/liter for fully compliant coatings. Also good for light-colored baking enamels.

Short Chain-Stop:

DURAMAC 2705:
Wt/Gal: 8.75
% NVM: 75
Solvents: MPK/Xylol
Gardner Color: 8 Max
Acid # (Solids): 8-14
Viscosity: Y-Z1
Reduced Viscosity: E-G @ 60% Xylol
F Seta Flash Point: 46
% Oil: 33
Oil Type: TOFA
Provides 3.5 VOC air-dry finishes at low viscosities. This resin, when blended with DURAMAC 2707, will enable formulation of high build films with excellent sag resistance, good flow, and very good weatherability.

DURAMAC 2707:
Wt/Gal: 8.90
% NVM: 75
Solvents: MPK/Xylol
Gardner Color: 8 Max
Acid # (Solids): 10-15
Viscosity: Z-Z2
Reduced Viscosity: G-H @ 60% Xylol
F Seta Flash Point: 46
% Oil: 26
Oil Type: Special FA
A vehicle designed to formulate 3.5 VOC compliant primers and topcoats at low viscosities. It has good exterior durability and extremely fast air-dry characteristics.

MCWHORTER: High Solids(Continued):

Short Chain-Stop(Continued):

DURAMAC 2720:
Wt/Gal: 8.85
% NVM: 75
Solvents: Xylol/Sec. Butanol
Gardner Color: 18 Max
Acid # (Solids): 20-25
Viscosity: Z-Z3
Reduced Viscosity: D-I @ 60% Xylol
F Seta Flash Point: 78
% Oil: 32
Oil Type: TOFA
A resin with excellent long-term durability and humidity resistance. It can be used to formulate 3.5 VOC coatings with low viscosities.

DURAMAC 2742:
Wt/Gal: 8.99
% NVM: 75
Solvents: Xylol/Butyl Acetate
Gardner Color: 6 Max
Acid # (Solids): 15 Max
Viscosity: Z1-Z3
Reduced Viscosity: H-I @ 60% Xylol
F Seta Flash Point: 80
% Oil: 33
Oil Type: Sunflower
A high solids sunflower chain-stopped alkyd with good speed of dry, salt spray and gloss retention for economical formulation below 3.5 VOC.

DURAMAC 2748:
Wt/Gal: 8.95
% NVM: 75
Solvents: Xylol/MPK
Gardner Color: 8 Max
Acid # (Solids): 10-15
Viscosity: Z-Z2
Reduced Viscosity: G-H @ 60% Xylol
F Seta Flash Point: 45
% Oil: 28
Oil Type: TOFA
A tall oil, fatty acid, high solids chain-stopped alkyd for fast air-dry and force cure applications.

MCWHORTER: High Solids(Continued):

Medium Oil:

DURAMAC 2768:
Wt/Gal: 8.75
% NVM: 80
Solvents: Arom. 100/Butyl Acet.
Gardner Color: 8 Max.
Acid # (Solids): 10 Max.
Viscosity: Z1-Z3
Reduced Viscosity: B-C @ 60% Butyl Acet.
F Seta Flash Point: 99
Oil Type: Soya/Linseed
An extremely durable high solids alkyd that provides the best in industrial maintenance applications. DURAMAC 2768 offers positive through dry for compliance applications and meets TTE-489H.

Long Oil:

DURAMAC 2757:
Wt/Gal: 8.35
% NVM: 96
Solvents: Xylol
Gardner Color: 12 Max
Acid # (Solids): 5-10
Viscosity: Z2-Z3
F Seta Flash Point: 101
Oil Type: Soya
A unique high solids long oil that is an excellent vehicle for 250 grams/liter enamels that have a very hard through dry, excellent gloss retention and low brush drag.

DURAMAC 2772:
Wt/Gal: 8.20
% NVM: 75
Solvents: Aromatic MS
Gardner Color: 7 Max
Acid # (Solids): 10 Max
Viscosity: Z1-Z3
Reduced Viscosity: N-Q @ 60% in Arom. MS
F Seta Flash Point: 105
Oil Type: Soya
A low viscosity high solids long oil with superior dry and through dry. It has excellent corrosion and durability properties in 380 grams/liter enamels.

MCWHORTER: High Solids(Continued):

Modified/Specialty:

DURAMAC 2058:
Wt/Gal: 9.00
% NVM: 75
Solvents: Butyl Acetate
Gardner Color: 3 Max
Acid # (Solids): 12 Max
Viscosity: Z2-Z4
F Seta Flash Point: 82
Oil Type: Coconut
A high solids coconut oil alkyd for excellent plasticizing of nitrocellulose and other lacquer-types below 550 grams/liter for fully compliant coatings. Also good for light-colored baking enamels. In exempt solvent.

REZIMAC 2721:
Wt/Gal: 9.10
% NVM: 75
Solvents: EEP/MPK/Xylol
Gardner Color: 10 Max
Acid # (Solids): 36-40
Viscosity: Z3-Z5
Reduced Viscosity: G-N @ 60% EEP/MPK/Xylol
F Seta Flash Point: 45
Oil Type: Linseed/Tung
A high solids rosin phenolic-modified alkyd for lacquer primers. It has very fast dry properties and offers excellent recoat and adhesion properties. It can be formulated to 3.5 VOC.

REZIMAC 2773:
Wt/Gal: 8.75
% NVM: 75
Solvents: Xylol
Gardner Color: 10 Max
Acid # (Solids): 25 Max
Viscosity: Z3-Z5
F Seta Flash Point: 80
Oil Type: Soya
An air-dry, high solids, rosin phenolic-modified soya alkyd. It forms a tough film with excellent adhesion, recoat and sanding properties. It can be formulated below 3.5 lb./gal. VOC.

MCWHORTER: High Solids(Continued):

Modified/Specialty(Continued):

MAXVAR 2515:
Wt/Gal: 8.90
% NVM: 75
Solvents: Xylol
Gardner Color: 8 Max
Acid # (Solids): 5-8
Viscosity: Z-Z2
F Seta Flash Point: 80
% Oil: 50
Oil Type: Linseed
A high solids epoxy ester with superior adhesion, flexibility, and chemical resistance. It can be used in both air-dry and bake systems.

Copolymers:

MACOPOL 3039:
Wt/Gal: 7.78
% NVM: 75
Solvents: Naphthol Spirits
Gardner Color: 6 Max
Acid # (Solids): 2 Max
Viscosity: Z-Z2
Reduced Viscosity: H @ 60% Naphthol Spirits
F Seta Flash Point: 104
Oil Type: Linseed
Mod. Type: VT
A fast dry enamel vehicle intended for New York/New Jersey quick dry as well as other general trade sales applications.

MACOPOL 3105:
Wt/Gal: 8.20
% NVM: 78-82
Gardner Color: 3-4
Acid # (Solids): 10
Viscosity: Z3-Z4
Reduced Viscosity: D-G @ 60% in VMP
F Seta Flash Point: 80
Oil Type: Soya
Mod Type: VT
High solids vinyl-toluenated soya alkyd with quick dry and hardness development. Its fast reduction characteristics allow for as low as 3.0 VOC formulations. It also has excellent aliphatic solubility.

MCWHORTER: High Solids(Continued):

Copolymers(Continued):

MACOPOL 3106:
Wt/Gal: 8.25
% NVM: 77-80
Solvents: MEK/Xylol
Gardner Color: 7 Max
Acid # (Solids): 5-10
Viscosity: Z3-Z5
F Seta Flash Point: 22
Oil Type: Soya
Mod. Type: VT
High solids vinyl-toluenated soya alkyd with quick dry and hardness development. Its reduction characteristics allow for as low as 3.5 VOC formulations. Can also be used in aerosols.

MACOPOL 3122:
Wt/Gal: 8.50
% NVM: 70
Solvents: Xylol
Gardner Color: 7 Max
Acid # (Solids): 4 Max
Viscosity: Z-Z2
Reduced Viscosity: U-W @ 65% Xylol
F Seta Flash Point: 80
Oil Type: TOFA
Mod. Type: Acrylic
A high solids acrylic with excellent durability, gloss and gloss retention. It can be used to formulate 3.5 VOC coatings at sprayable viscosities. Dries to a deep high gloss, with excellent early water resistance.

MACOPOL 3140:
Wt/Gal: 8.25
% NVM: 80
Solvents: Xylol
Gardner Color: 5 Max
Acid # (Solids): 8 Max
Viscosity: Z-Z2
F Seta Flash Point: 80
Oil Type: Soya
Mod. Type: Styrene
A high solids styrenated alkyd which formulates as low as 2.8 VOC. It dries quickly to a deep gloss film with excellent film durability.

MCWHORTER: High Solids(Continued):

Copolymers(Continued):

MACOPOL 3151:
Wt/Gal: 8.58
% NVM: 70
Solvents: Xylol/MPK
Gardner Color: 6 Max
Acid # (Solids): 5 Max
Viscosity: X-Z1
F Seta Flash Point: 46
Oil Type: TOFA
Mod. Type: Acrylic
An acrylic alkyd high solids with excellent durability and extremely fast dry. It formulates easily to 3.5 VOC at spray viscosity.

Oil-Modified Polyurethanes:

CARBAMAC 82:
Wt/Gal: 7.92
% NVM: 80
Solvents: MS
Gardner Color: 7 Max
Acid # (Solids): 2 Max
Viscosity: T-V
Reduced Viscosity: A-C @ 65% MS
F Seta Flash Point: 105
Oil Type: Linseed
Mod. Type: TDI
A unique low viscosity high solids urethane for use in satin and gloss enamels. It performs as either a blending vehicle for 350 grams/liter brushing varnishes or straight urethane for floor finishes.

CARBAMAC 83:
Wt/Gal: 7.94
% NVM: 80
Solvents: MS
Gardner Color: 3 Max
Acid # (Solids): 1 Max
Viscosity: Z-Z2
Reduced Viscosity: E-G @ 65% MS
F Seta Flash Point: 105
Oil Type: Sunflower
Mod. Type: TDI
A unique high solids urethane with unusually hard through-dry properties and very light color for 350 grams/liter varnishes and compliant floor finishes.

MCWHORTER: High Solids(Continued):

Oil-Modified Polyurethanes(Continued):

CARBAMAC 520:
Previous Product Name: VARKYDANE 417-100
Wt/Gal: 8.48
% NVM: 100
Solvents: None
Gardner Color: 9 Max
Acid # (Solids): 1 Max
Viscosity: Z7-Z8
F Seta Flash Point: 200
% Oil: 71
Oil Type: Linseed
Mod. Type: TDI
A high solids urethane ink vehicle with excellent adhesion to paper, metal, and glass. It can also be used for furniture finishes as high performance overprint varnish.

Polyester:

POLYMAC 928:
Wt/Gal: 9.65
% NVM: 86
Solvents: Arom. 100
Gardner Color: 3 Max
Acid # (Solids): 2-4
Viscosity: Z2-Z4
Reduced Viscosity: J-L @ 70% SC-100
F Seta Flash Point: 100
Theo. OH: 208
An oil-free polyester which gives extremely flexible films and responds well to a wide range of bake schedules. Coatings can be formulated with this polyester to meet AAMA 603.8 specifications for exterior aluminum extrusions. It also can be formulated to 2.8 VOC and lower.

POLYMAC 929:
Wt/Gal: 9.22
% NVM: 77
Solvents: Arom. 150/MAK
Gardner Color: 3 Max
Acid # (Solids): 10 Max
Viscosity: Z-Z2
F Seta Flash Point: 151
Theo OH: 87
A very high quality 50% silicone-modified polyester. It offers very high gloss and outstanding gloss retention, plus adhesion, flexibility, color retention, and heat resistance. For the most critical applications.

MCWHORTER: High Solids(Continued):

Polyester(Continued):

POLYMAC 937:
Wt/Gal: 9.00
% NVM: 80
Solvents: MIBK
Gardner Color: 3 Max
Acid # (Solids): 8-12
Viscosity: Z1-Z3
F Seta Flash Point: 74
Theo. OH: 175
A high quality polyester for two-pack systems. It offers very good gloss retention with the added properties of ease of application and excellent flexibility.

POLYMAC 941:
Wt/Gal: 9.90
% NVM: 85
Solvents: PMA
Gardner Color: 13 max
Acid # (Solids): 7-14
Viscosity: Y-Z1
Reduced Viscosity: D-G @ 65% PMA
F Seta Flash Point: 108
A high solids PET polyester which combines the adhesion and telegraph resistance of an alkyd with the excellent durability of a polyester. It offers very good water immersion properties and salt spray resistance. Gives low viscosity in 2.8 VOC systems.

POLYMAC 944:
Wt/Gal: 8.95
% NVM: 80
Solvents: Xylol
Gardner Color: 3 Max
Acid # (Solids): 10 Max
Viscosity: Z3-Z5
F Seta Flash Point: 80
Theo. OH: 213
An extremely versatile high solids appliance polyester with superior color, gloss, and chemical resistance. It formulates easily to 2.8 VOC.

MCWHORTER: High Solids(Continued):

Polyester(Continued):

POLYMAC 955:
Wt/Gal: 8.76
% NVM: 86.2
Solvents: Xylol
Gardner Color: 7 Max
Acid # (Solids): 10 Max
Viscosity: Z3-Z5
F Seta Flash Point: 80
Theo. OH: 185
A very low VOC high solids polyester with excellent gloss retention, salt spray, and flexibility. It formulates below 2.3 VOC actual with 35% melamine for excellent metal office furniture and similar applications.

POLYMAC 966:
Wt/Gal: 8.75
% NVM: 85
Solvents: Xylol
Gardner Color: 7 Max
Acid # (Solids): 10 Max
Viscosity: Z3-Z5
F Seta Flash Point: 80
Theo. OH: 187
A very low VOC premium high solids polyester with near appliance grade properties. It formulates below 2.3 VOC actual with 35% melamine and has low acid catalyst demand.

Solution Acrylics:

ACRYLAMAC 5139:
Wt/Gal: 8.82
% NVM: 80
Solvents: Xylol OX/MX/ACT
Gardner Color: 1 Max
Acid # (Solids): 32-35
Viscosity: Z3-Z5
F Seta Flash Point: 85
Theo. OH: 120
A very high quality thermosetting acrylic. It develops excellent hardness and cures rapidly at moderate temperatures. It can be used to modify polyesters to improve flow, adhesion, and gloss retention.

MCWHORTER: High Solids(Continued):

Solution Acrylics(Continued):

ACRYLAMAC 5297:
Wt/Gal: 8.80
% NVM: 70
Solvents: EP
Gardner Color: 2 Max
Acid # (Solids): 36-40
Viscosity: Z2-Z4
F Seta Flash Point: 120
Theo. OH: 56
A medium high solids acrylic which has hydroxyl functionality, enabling it to be used as a conventional solution acrylic or a water soluble resin. Its pigment-wetting ability also promotes use as a grinding vehicle.

Two-Package Hydroxyl Polyols:

ACRYLAMAC 7200:
Wt/Gal: 8.85
% NVM: 80
Solvents: Xylol
Gardner Color: 1-2
Acid # (Solids): 2-3
Viscosity: Y-Z2
F Seta Flash Point: 81
Theo. OH: 130
A high solids acrylic for two-pack polyisocyanates. It offers low viscosity, outstanding gloss retention and superior flexibility below 3.5 VOC.

POLYMAC 937:
Wt/Gal: 9.00
% NVM: 80
Solvents: MIBK
Gardner Color: 3 Max
Acid # (Solids): 8-12
Viscosity: Z1-Z3
F Seta Flash Point: 74
Theo. OH: 175
A high quality high solids polyester for crosslinking with polyisocyanates for two-pack systems. It gives high durability finishes below 3.5 VOC.

MCWHORTER: High Solids(Continued):

Two-Package Hydroxyl Polyols(Continued):

DURAMAC 7011:
Wt/Gal: 8.80
% NVM: 75
Solvents: Xylol
Gardner Color: 6 Max
Acid # (Solids): 4 Max
Viscosity: Z-Z2
Reduced Viscosity: D-G @ 60% Xylol
F Seta Flash Point: 80
Theo. OH: 87
A very versatile vehicle for high solids two-package systems. Its very high EW gives 7011 very low isocyanate demand for outstanding economics with good durability and outstanding flexibility.

Two-Package Carboxy:

ACRYLAMAC 7555:
Wt/Gal: 8.84
% NVM: 80
Solvents: EP
Gardner Color: 6 Max
Acid # (Solids): 95-100
Viscosity: Z3-Z5
F Seta Flash Point: 128
A high solids carboxyl functional acrylic for non-isocyanate two package systems crosslinked with light stable epoxies. It formulates to 3.5 VOC with excellent gloss and color retention, flexibility and chemical resistance.

C.J. OSBORN: High Solids Resins:

These products comprise all of the previous resins outlined from 01 to the 13 series and illustrate the types of high solid resins available. Care should be exercised when reviewing this series, as it contains non-drying, drying, and baking systems.

01-124:
Pure non-drying alkyd
% Non-Volatile: 79-81
Solvent: Xylol
Viscosity: M-P
Color (Gardner): 7 max.
Acid Number (Solids): 20 max.
Modifying Oil: Coconut
WPG: 8.47
This is a resin plasticizer for nitrocellulose. Being longer in oil has a more pronounced plasticizing effect. For use in high solids lacquers.

01-131:
Non-drying plasticizing type alkyd
% Non-Volatile: 79-81
Solvent: Toluol
Viscosity: U-X
Color (Gardner): 4 max.
Acid Number (Solids): 10 max.
Modifying Oil: None
WPG: 8.85
Valuable in formulating high solids lacquers due to low viscosity. Nitrocellulose lacquers for both wood and metal may be formulated with this alkyd.

02-A-4773:
Modified medium oil alkyd
% Non-Volatile: 79-81
Solvent: MEK/PM Glycol ether
Viscosity: Z3-Z5
Color (Gardner): 12 max.
Acid Number (Solids): 40 max.
Modifying Oil: TOFA/Soya
WPG: 8.67
Tough, durable non-lifting primers with excellent adhesion and fast dry.

C.J. OSBORN: High Solids Resins(Continued):

03-A-3263:
Chain stopped alkyd
% Non-Volatile: 74-76
Solvent: Xylol
Viscosity: Z4-Z6
Color (Gardner): 8 max.
Acid Number (Solids): 12 max.
Modifying Oil: Soya
WPG: 8.87
This chain stopped alkyd is designed for compatibility with a variety of film formers like CAB, NC, vinyls, chlorinated rubbers, urea and melamine resins. It is therefore very useful in a variety of applications, air dry and bake.

03-A-4374:
High solid, short oil alkyd
% Non-Volatile: 89-91
Solvent: Xylol, DOWBC 300
Viscosity: Y-Z2
Color (Gardner): 8 max.
Acid Number (Solids): 15 max.
Modifying Oil: TOFA
WPG: 9.05
High solid, low viscosity, short oil alkyd suitable for crosslinking with melamine and urea resins. It has good application in industrial coatings.

03-A-4477:
Baking or air-dry industrial finishing alkyds
% Non-Volatile: 79-81
Solvent: MEK/PM Glycol ether
Viscosity: Z2-Z4
Color (Gardner): 9 max.
Acid Number (Solids): 12 max.
Modifying Oil: TOFA
WPG: 8.99
General purpose industrial baking finish with good urea and melamine compatibility. Has good aliphatic solvent tolerance and is an excellent high solid vehicle.

03-A-5344:
High solid, short oil alkyd
% Non-Volatile: 89-91
Solvent: PM Acetate
Viscosity: Z1-Z3
Color (Gardner): 8 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 8.90
Excellent high solid industrial finishes.

C.J. OSBORN: High Solids Resins(Continued):

03-A-5698:
High solid, short oil alkyd
% Non-Volatile: 89-91
Solvent: PM Acetate
Viscosity: Z4-Z6
Color (Gardner): 6 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 9.00
This is a flexible, short oil alkyd designed to impart characteristics that cannot be obtained by the use of conventional short oil alkyds. Coatings may be formulated at high solids that retain their flexibility even after extended baking. This product has excellent pigment wetting, gloss and durability.

03-A-7015:
High solid, short oil alkyd
% Non-Volatile: 89-91
Solvent: Butyl cellosolve, Xylol
Viscosity: Z6-Z8
Color (Gardner): 6 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 8.95
High solid vehicle noticeable for pigment wetting, hardness and excellent baking properties.

03-A-5885:
High solid baking alkyd
% Non-Volatile: 89-91
Solvent: Butyl acetate
Viscosity: Z2-Z4
Color (Gardner): 6 max.
Acid Number (Solids): 12 max.
Modifying Oil: TOFA
WPG: 8.95
This product is a general purpose, high solid baking alkyd.

03-A-6633:
High solid short oil baking alkyd
% Non-Volatile: 89-91
Solvent: Xylol, butanol
Viscosity: Z4-Z6
Color (Gardner): 8 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 8.89
This product is a premium high solid industrial finish.

C.J. OSBORN: High Solids Resins(Continued):

03-A-7015:
High solid, short oil alkyd
% Non-Volatile: 89-91
Solvent: Xylol, Butyl cellosolve
Viscosity: Z6-Z8
Color (Gardner): 6 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 8.89
This is a high solid vehicle noticeable for pigment wetting hardness which has excellent baking properties.

03-9899:
High solid, short oil alkyd
% Non-Volatile: 89-91
Solvent: PM Acetate
Viscosity: Z4-Z6
Color (Gardner): 6 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 9.00
This is a flexible, short oil alkyd designed to impart a combination of characteristics which may not be obtained with the use of conventional short oil alkyds. Coatings may be formulated at high solids that retain their flexibility even after extended bake schedules. Excellent wetting of pigments & excellent durability and gloss are noticeable characteristics of this product.

05-A-0565:
Long oil alkyd
% Non-Volatile: 82-84
Solvent: Exempt MS
Viscosity: X-Y
Color (Gardner): 6 max.
Acid Number (Solids): 10 max.
Modifying Oil: Specially selected acids
WPG: 8.40
Long oil color retentive architectural type vehicle, premium resin for best interior and exterior enamel formulations.

C.J. OSBORN: High Solids Resins(Continued):

05-2164:
Long oil latex modifier
% Non-Volatile: 100
Solvent: None
Viscosity: Z3-Z5
Color (Gardner): 9 max.
Acid Number (Solids): 10 max.
Modifying Oil: Linseed
WPG: 8.50
Additive for exterior latex paints to impart improved adhesion and durability over chalky surfaces.

05-2165:
Long oil latex modifier
% Non-Volatile: 100
Solvent: None
Viscosity: Z2-Z4
Color (Gardner): 7 max.
Acid Number (Solids): 10 max.
Modifying Oil: Soya
WPG: 8.50
Additive for exterior latex paints to impart improved adhesion and durability over chalky surfaces.

05-2657:
Long oil alkyd house paint vehicle
% Non-Volatile: 83-85
Solvent: Exempt MS
Viscosity: T-U
Color (Gardner): 7 max.
Acid Number (Solids): 7 max.
Modifying Oil: Soya/Linseed
WPG: 7.90
Alkyd exterior house paint, uniform gloss, excellent flow, easy brushing and high viscosities. It is also useful in house paint formulations.

05-2677:
Long oil isophthalic acid alkyd
% Non-Volatile: 89-91
Solvent: Exempt MS
Viscosity: V-X
Color (Gardner): 8 max.
Acid Number (Solids): 9 max.
Modifying Oil: Linseed
WPG: 8.00
This resin meets Federal spec. TT-P-102 and may be used in meeting TT-P-81; exhibits excellent gloss retention and flexibility.

C.J. OSBORN: High Solids Resins(Continued):

05-A-5416:
High solid long oil alkyd
% Non-Volatile: 80
Solvent: Exempt MS
Viscosity: Z3-Z5
Color (Gardner): 10 max.
Acid Number (Solids): 12 max.
Modifying Oil: Linseed
WPG: 8.22
Interior and exterior architectural enamel.

05-A-5632:
Long oil latex modifier
% Non-Volatile: 100
Solvent: None
Viscosity: Z1-Z3
Color (Gardner): 7 max.
Acid Number (Solids): 10 max.
Modifying Oil: Soya
WPG: 8.45
Designed for latex modifications to increase adhesion and chalk resistance.

07-RF-0245:
Emulsifiable resin ester
% Non-Volatile: 97-99
Solvent: None
Viscosity: 120-240 poises
Color (Gardner): 6 max.
Acid Number (Solids): 12 max.
Modifying Oil: TOFA
WPG: 8.20
This product is used to upgrade exterior latex paints--improves resistance to chipping and peeling, imparts better adhesion to chalky and glossy surfaces. Also, better mildew resistance is obtained.

07-A-3423:
High solid wrinkle vehicle
% Non-Volatile: 79-81
Solvent: MIBK
Viscosity: Y-Z1
Color (Gardner): 12 max.
Acid Number (Solids): 36
WPG: 8.67
High solids low VOC applications.

C.J. OSBORN: High Solids Resins(Continued):

08-A-3702:
Oil modified polyurethane
% Non-Volatile: 100
Solvent: None
Viscosity: 65-100 poises
Color (Gardner): 8 max.
Acid Number (Solids): 5 max.
Modifying Oil: Linseed
WPG: 8.47
High solid, low viscosity--good scuff resistance, suggests applications in stains, trim and trellis.

08-A-3815:
Oil modified polyurethane
% Non-Volatile: 100
Solvent: None
Viscosity: 2,000-2,750 poises
Color (Gardner) 8 max.
Acid Number (Solids): 5 max.
Modifying Oil: Linseed
WPG: 8.60
High solid, excellent drying, good scuff resistance suggests application in stain, sealers, house paints, trim and trellis.

08-A-4639:
Oil modified polyurethane
% Non-Volatile: 100
Solvent: None
Viscosity: 500-800 poises
Color (Gardner): 8 max.
Acid Number (Solids): 5 max.
Modifying Oil: Linseed
WPG: 8.41
High solid, excellent drying, good scuff resistance suggest application in stain, sealers, house paints, trim and trellis.

09-908:
Oil modified polyester resin plasticizer
% Non-Volatile: 100
Solvent: None
Viscosity: Z1-Z3
Color (Gardner): 8 max.
Acid Number (Solids): 5 max.
Modifying Oil: Castor
WPG: 8.23
This resin is used as a plasticizer for nitrocellulose, ethyl cellulose and polyvinyl butyral. In addition to flexibility, elasticity and adhesion, 09-908 is an excellent pigment grinding vehicle. It is recommended as a plasticizer for very flexible lacquers such as fabric finishes.

C.J. OSBORN: High Solids Resins(Continued):

09-3231:
Polyester
% Non-Volatile: 79-81
Solvent: Toluene
Viscosity: U-W
Color (Gardner): 4 max.
Acid Number (Solids): 13 max.
Modifying Oil: None
WPG: 8.85
Polymeric plasticizer contributing to flexibility and adhesion.

09-A-5236:
Saturated polyester
% Non-Volatile: 89-91
Solvent: PM Acetate
Viscosity: Z5-Z7
Color (Gardner): 5 max.
Acid Number (Solids): 15 max.
WPG: 9.90
High solid polyester designed for color, hardness, and good flexibility.

09-A-5877:
Saturated polyester
% Non-Volatile: 84-86
Solvent: PM Acetate
Methyl ethyl ketone
Viscosity: Z-Z3
Color (Gardner): 3 max.
Acid Number (Solids): 10 max.
Modifying Oil: None
WPG: 9.20
High solids, flexible with good color retention.

09-A-6914:
High solid, short oil alkyd
% Non-Volatile: 84-86
Solvent: Xylol
Viscosity: Z6-Z8
Color (Gardner): 10 max.
Acid Number (Solids): 10 max.
Modifying Oil: TOFA
WPG: 8.72
This short oil alkyd is an excellent high solid baking vehicle.

C.J. OSBORN: High Solids Resins(Continued):

09-9152:
Oil free polyester
% Non-Volatile: 84-86
Solvent: 50% MEK
50% Cell. Acet.
Viscosity: Y-W
Color (Gardner): 2 max.
Acid Number (Solids): 10 max.
WPG: 9.10
This low temperature, heat convertible polyester is a distinctly new type of resin for the highest quality finishes. It forms a tough, non-yellowing film with gloss and color retention. Chemical and physical properties are superior to conventional alkyds. It exhibits exceptional alkali and salt spray resistance.

9-10017:
Solvent free polyester
% Non-Volatile: 100
Solvent: None
Viscosity: Y-Z1
Color (Gardner): 3 max.
Acid Number (Solids): 10 max.
Modifying Oil: None
WPG: 9.55
High solids, industrial baking coatings.

9-10086:
High solids polyester
% Non-Volatile: 100
Solvent: None
Viscosity: Y-Z1
Color (Gardner): 3 max.
Acid Number (Solids): 15 max.
Modifying Oil: None
WPG: 9.60
Solvent-free plasticizing resin for industrial and lacquer type finishes.

9-10104:
100% solvent-free polyester
% Non-Volatile: 100
Solvent: None
Viscosity: U-W
Color (Gardner): 3 max.
Acid Number (Solids): 10-20
Modifying Oil: None
WPG: 9.85
This solvent-free polyester has excellent gloss and very good flexibility.

C.J. OSBORN: High Solids Resins(Continued):

10-1516:
Solvent-free, water reducible polyester
% Non-Volatile: 100
Solvent: None
Viscosity: X-Z
Color (Gardner): 3 max.
Acid Number (Solids): 55-56
Modifying Oil: None
WPG: 10.00
High solids, industrial baking finishes.

10-A-4067:
Polyester reducible in water without the aid of amine
% Non-Volatile: 79-81
Solvent: Butyl cellosolve
Viscosity: Z5-Z7
Color (Gardner): 3 max.
Acid Number (Solids): 50-60
Modifying Oil: None
WPG: 9.53
This resin is designed in such a way that it may be introduced in a water system without the help of amines. It may be used with substantial amounts of ureas or melamine resins with which it is capable of crosslinking.

10-A-5426:
Water soluble polyester
% Non-Volatile: 79-81
Solvent: Sec. butanol, Butyl cello.
Viscosity: Z5-Z7
Color (Gardner): 4 max.
Acid Number (Solids): 50-65
Modifying Oil: None
WPG: 9.10
This water soluble polyester is designed to be water-borne with a minimal amount of co-solvent. The resin needs only moderate quantities of melamine or urea crosslinker to produce a tough, glossy film.

10-A-5816:
Oil-free polyester
% Non-Volatile: 79-81
Solvent: Butyl cello.
Viscosity: Z2-Z4
Color (Gardner): 3 max.
Acid Number (Solids): 41-49
Modifying Oil: None
WPG: 9.23
Designed for being water dispersible. Crosslinks with melamine and urea resins. 10-A-5816 produces very flexible enamels.

C.J. OSBORN: High Solids Resins(Continued):

10-A-5995:
Water dispersible epoxy ester
% Non-Volatile: 79-81
Solvent: Butyl cello, carbitol, butanol
Viscosity: Z6-Z8
Color (Gardner): 10 max.
Acid Number (Solids): 40-50
Modifying Oil: DCO FA
WPG: 8.80
Low temperature metal baking finish.

10-A-6441:
Water soluble oleoresinous
% Non-Volatile: 100
Solvent: None
Viscosity: Z5-Z7
Color (Gardner): 10 max.
Acid Number (Solids): 100-120
Modifying Oil: Tung
WPG: 8.30
This vehicle produces baked films which are very hard, mar-proof and fairly glossy. They do not need a crosslinker. Air dry films from this resin are flat because of micro-wrinkling. Drying time is about 6 hours.

10-9889:
Oil free, water reducible polyester (not pre-neutralized)
% Non-Volatile: 78-82
Solvent: N-butyl alcohol
Viscosity: Z4-Z6
Color (Gardner): 2 max.
Acid Number (Solids): 50-60
Modifying Oil: None
WPG: 9.00
For exterior as well as interior applications where gloss, flexibility, hardness and color retention is required over metal substrates. Baked films exhibit superior salt-spray resistance and durability.

10-10070:
Oil-free water reducible polyester
% Non-Volatile: 79-81
Solvent: Butyl cellosolve
Viscosity: Z4-Z6
Color (Gardner): 3 max.
Acid Number (Solids): 55-65
Modifying Oil: None
WPG: 9.35
This water reducible industrial baking finish may be used for coatings as well as metal decorating finishes.

THIBAUT & WALKER: High Solid Resins:

SUPER ALKYD Air Dry Alkyds:

574-75TK:
NV %: 75
Solvent: Toluol/MPK
Viscosity (G-H): Z1-Z3
Reduced Visc.: A-C
Visc. % NV Reducer: 60 MEK
Acid Value (Solids) (Max.): 15
Color (Max.): 6
Type Oil: Soya
Average Wt./Gal.: 8.90
Very fast set to touch air dry short oil used in drum enamels and other fast air dry applications. Low temperature bakes.

800-80TK:
NV %: 80
Solvent: Toluol/MPK
Viscosity (G-H): Z1-Z3
Reduced Visc.: Q-T/M-P
Visc. % NV Reducer: 70 Toluol/60 VMP
Acid Value (Solids) (Max.): 10
Color (Max.): 8
Type Oil: Soya
Average Wt,/Gal.: 8.65
High solids medium for quick drying enamels, primers and structural steel coatings and traffic paints.

801-75TK:
NV %: 75
Solvent: Toluol/MPK
Viscosity (G-H): Z1-Z3
Reduced Visc.: N-R
Visc. % NV Reducer: 60 VMP
Acid Value (Solids) (Max.): 18
Color (Max.): 9
Type Oil: TOFA
Average Wt./Gal.: 8.50
Rosin ester modified version of 574-75TK for faster tack free air dry with good flexibility. Comparable to rosin/phenol modified high solids alkyds.

THIBAUT & WALKER: High Solids Resins(Continued):

SUPER ALKYD Air Dry Alkyds(Continued):

802-75:
NV %: 75
Solvent: Toluol/n-Butanol
Viscosity (G-H): Z3-Z4
Reduced Visc.: S-U
Visc. % NV Reducer: 60 VMP
Acid Value (Solids) (Max.): 18
Color (Max.): 9
Type Oil: TOFA
Average Wt./Gal.: 8.70
A rosin ester modified air or forced air dry alkyd for dip or spray applications.

802-70:
NV %: 70
Solvent: Toluol/n-Butanol
Viscosity (G-H): X-Z
Reduced Visc.: N-Q
Visc. % NV Reducer: 60 VMP
Acid Value (Solids) (Max.): 18
Color (Max.): 9
Type Oil: TOFA
Average Wt./Gal.: 8.60
Lower solids version of T&W 802-75.

803-75:
NV %: 75
Solvent: Xylol/n-Butanol
Viscosity (G-H): Z3-Z4
Reduced Visc.: U-V
Visc. % NV Reducer: 60 VMP
Acid Value (Solids) (Max.): 18
Color (Max.): 9
Type Oil: TOFA
Average Wt./Gal.: 8.65
Fast air dry metal coating with excellent chemical resistance.

THIBAUT & WALKER: High Solids Resins(Continued):

SUPER ALKYD Air Dry Alkyds(Continued):

805-80:
NV %: 80
Solvent: ARO 100
Viscosity (G-H): Z6+-1
Reduced Visc.: G-I
Visc. % NV Reducer: 60 ARO 100
Acid Value (Solids) (Max.): 10
Color (Max.): 6
Type Oil: Soya
Average Wt./Gal.: 8.65
High solids medium oil for standard dry dip applications.

806-80:
NV %: 80
Solvent: ARO 100
Viscosity (G-H): Z6+-1
Reduced Visc.: I-L
Visc. % NV Reducer: 60 ARO 100
Acid Value (Solids) (Max.): 15
Color (Max.): 9
Type Oil: TOFA
Average Wt./Gal.: 8.80
Rosin ester modified medium oil for for fast dry dip applications.

810-80:
NV %: 80
Solvent: ARO 100/MAK
Viscosity (G-H): Z3-Z5
Reduced Visc.: T-V
Visc. % NV Reducer: 60 VMP
Acid Value (Solids) (Max.): 10
Color (Max): 8
Type Oil: Soya
Average Wt./Gal.: 8.65
An air dry medium oil similar to T&W 800-80TK but with a Flash Point >100F.

THIBAUT & WALKER: High Solids Resins(Continued):

SUPER ALKYD Baking Alkyds:

840-90:
NV %: 90
Solvent: PMAc
Viscosity (G-H): Z4-Z5
Reduced Visc.: I-J
Visc. % NV Reducer: 70 PMAc
Acid Value (Solids) (Max.): 10
Color (Max.): 8
Type Oil: TOFA
Average Wt./Gal.: 8.90
Good performance high solids bake or low bake alkyd.

845-90:
NV %: 90
Solvent: PMAc
Viscosity (G-H): Z3-Z4
Acid Value (Solids) (Max.): 10
Color (Max.): 8
Type Oil: TOFA
Average Wt./Gal.: 8.95
Economical high solids baking alkyd with superior performance.

846-90:
NV %: 90
Solvent: Xylol
Viscosity (G-H): Z5-Z6+
Reduced Visc.: A1-B
Visc. % NV Reducer: 60 Xylol
Acid Value (Solids) (Max.): 10
Color (Max.): 8
Type Oil: TOFA
Average Wt./Gal.: 9.05
Economical baking alkyd with good performance.

THIBAUT & WALKER: High Solids Resins(Continued):

SUPER POLYESTER Baking Polyesters:

880-90:
NV %: 90
Solvent: PMAc
Viscosity (G-H): Z4-Z5
Reduced Visc.: G-H
Visc. % NV Reducer: 70 PMAc
Acid Value (Solids) (Max.): 10
Color (Max.): 5
Average Wt./Gal.: 8.95
Standard performance, economical oil free polyester.

890-95:
NV %: 85
Solvent: PMAc
Viscosity (G-H): Z4-Z5
Reduced Visc.: D-F
Visc. % NV Reducer: 70 PMAc
Acid Value (Solids) (Max.): 10
Color (Max.): 5
Average Wt./Gal.: 9.40
High performance oil free polyester.